PRODUCT NAME:

PELADOW* PREMIER SNOW AND ICE MELTER CALCIUM CHLORIDE (100LB BOX)

MSDS #: DW79537

2. COMPOSITION/INFORMATION ON INGREDIENTS

CALCIUM CHLORIDE CAS# 010043-52-4 90-92% SODIUM CHLORIDE CAS# 007647-14-5 1- 2% POTASSIUM CHLORIDE CAS# 007447-40-7 2- 3% WATER CAS# 007732-18-5

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

POTENTIAL HEALTH EFFECTS (SEE SECTION 11 FOR TOXICOLOGICAL DATA.)

EYE: PELLETS MAY CAUSE SLIGHT EYE IRRITATION. DUSTS MAY CAUSE SEVERE IRRITATION WITH CORNEAL INJURY. EFFECTS MAY BE SLOW TO HEAL. WHEN DISSOLVING, THE HEAT PRODUCED MAY CAUSE MORE INTENSE EFFECTS AS WELL AS THERMAL BURNS.

SKIN: SHORT SINGLE EXPOSURE NOT LIKELY TO CAUSE SIGNIFICANT SKIN IRRITATION. PROLONGED OR REPEATED EXPOSURE MAY CAUSE SKIN IRRITATION, EVEN A BURN. MAY CAUSE MORE SEVERE RESPONSE IF SKIN IS DAMP OR IF MATERIAL IS CONFINED TO SKIN. MAY CAUSE MORE SEVERE RESPONSE IF SKIN IS ABRADED (SCRATCHED OR CUT). WHEN DISSOLVING, THE HEAT PRODUCED MAY CAUSE MORE INTENSE EFFECTS AS WELL AS THERMAL BURNS. NOT CLASSIFIED AS CORROSIVE ACCORDING TO DOT. A SINGLE PROLONGED EXPOSURE IS NOT LIKELY TO RESULT IN THE MATERIAL BEING ABSORBED THROUGH SKIN IN HARMFUL AMOUNTS.

INGESTION: SINGLE DOSE ORAL TOXICITY IS CONSIDERED TO BE LOW.

SMALL AMOUNTS SWALLOWED INCIDENTAL TO NORMAL HANDLING OPERATIONS
ARE NOT LIKELY TO CAUSE INJURY; SWALLOWING AMOUNTS LARGER THAN
THAT MAY CAUSE INJURY. INGESTION MAY CAUSE GASTROINTESTINAL
IRRITATION OR ULCERATION.

INHALATION: VAPORS ARE UNLIKELY DUE TO PHYSICAL PROPERTIES. DUST MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: FOR POTASSIUM CHLORIDE: IN ANIMALS, EFFECTS HAVE BEEN REPORTED ON THE FOLLOWING ORGANS FOLLOWING INGESTION: GASTROINTESTINAL TRACT, HEART, KIDNEY. DOSE LEVELS PRODUCING THESE EFFECTS WERE MANY TIMES HIGHER THAN ANY DOSE LEVELS EXPECTED FROM EXPOSURE DUE TO USE.

CANCER INFORMATION: NO RELEVANT INFORMATION FOUND.

TERATOLOGY (BIRTH DEFECTS): NO RELEVANT INFORMATION FOUND.

REPRODUCTIVE EFFECTS: NO RELEVANT INFORMATION FOUND.

4. FIRST AID

EYES: IMMEDIATELY FLUSH EYES WITH WATER; REMOVE CONTACT LENSES, IF PRESENT, AFTER THE FIRST 5 MINUTES, THEN CONTINUE FLUSHING EYES FOR AT LEAST 15 MINUTES. OBTAIN MEDICAL ATTENTION WITHOUT

DELAY, PREFERABLY FROM AN OPHTHALMOLOGIST.

SKIN: WASH SKIN WITH PLENTY OF WATER.

INGESTION: DO NOT INDUCE VOMITING. GIVE ONE CUP (8 OUNCES OR 240 ML) OF WATER OR MILK IF AVAILABLE AND TRANSPORT TO A MEDICAL FACILITY. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

INHALATION: MOVE PERSON TO FRESH AIR; IF EFFECTS OCCUR; CONSULT A PHYSICIAN.

NOTE TO PHYSICIAN: IF BURN IS PRESENT, TREAT AS ANY THERMAL BURN, AFTER DECONTAMINATION. DUE TO IRRITANT PROPERTIES, SWALLOWING MAY RESULT IN BURNS/ULCERATION OF MOUTH, STOMACH & LOWER GITRACT WITH SUBSEQUENT STRICTURE. ASPIRATION OF VOMITUS MAY CAUSE LUNG INJURY. SUGGEST ENDOTRACHEAL/ESOPHAGEAL CONTROL IF LAVAGE IS DONE. NO SPECIFIC ANTIDOTE. TREATMENT OF EXPOSURE SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS AND THE CLINICAL CONDITION OF THE PATIENT.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES FLASH POINT: NONE

METHOD USED: NOT APPLICABLE

AUTOIGNITION TEMPERATURE: NOT APPLICABLE

FLAMMABILITY LIMITS
LFL: NOT APPLICABLE
UFL: NOT APPLICABLE

HAZARDOUS COMBUSTION PRODUCTS: NOT APPLICABLE.

OTHER FLAMMABILITY INFORMATION: HEAT IS GENERATED WHEN PRODUCT MIXES WITH WATER.

EXTINGUISHING MEDIA: THIS MATERIAL DOES NOT BURN. IF EXPOSED TO FIRE FROM ANOTHER SOURCE, USE SUITABLE FIRE EXTINGUISHING AGENT FOR THAT FIRE.

FIRE FIGHTING INSTRUCTIONS: KEEP PEOPLE AWAY. ISOLATE FIRE AREA AND DENY UNNECESSARY ENTRY. THIS MATERIAL DOES NOT BURN. FIGHT FIRE FOR OTHER MATERIAL THAT IS BURNING. WATER SHOULD BE APPLIED IN LARGE QUANTITIES AS A FINE SPRAY.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND PROTECTIVE FIRE FIGHTING CLOTHING (INCLUDES FIRE FIGHTING HELMET, COAT, PANTS BOOTS AND GLOVES). AVOID CONTACT WITH THIS MATERIAL DURING FIRE FIGHTING OPERATIONS. IF CONTACT IS LIKELY, CHANGE TO FULL CHEMICAL RESISTANT FIRE FIGHTING CLOTHING WITH SCBA. IF THIS IS NOT AVAILABLE, WEAR FULL CHEMICAL RESISTANT CLOTHING WITH SCBA AND FIGHT FIRE FROM A REMOTE LOCATION. FOR PROTECTIVE EQUIPMENT IN POST-FIRE OR NON-FIRE CLEAN UP SITUATIONS, REFER TO THE RELEVANT SECTIONS.

6. ACCIDENTAL RELEASE MEASURES (SEE SECTION 15 FOR REGULATORY

INFORMATION)

PROTECT PEOPLE: ISOLATE AREA. KEEP UNNECESSARY AND UNPROTECTED PERSONNEL FROM ENTERING THE AREA. REFER TO SECTION 7, HANDLING FOR ADDITIONAL PRECAUTIONARY MEASURES. SPILLED MATERIAL MAY CAUSE A SLIPPING HAZARD. USE APPROPRIATE SAFETY EQUIPMENT. FOR ADDITIONAL INFORMATION, REFER TO SECTION 8, EXPOSURE CONTROLS/

PERSONAL PROTECTION

PROTECT THE ENVIRONMENT: PREVENT FROM ENTERING INTO SOIL, DITCHES, SEWERS, WATERWAYS AND/OR GROUNDWATER. SEE SECTION 12, ECOLOGICAL INFORMATION.

CLEANUP: SMALL SPILLS: CONTAIN SPILLED MATERIAL IF POSSIBLE.

COLLECT IN SUITABLE AND PROPERLY LABELED CONTAINERS. WASH THE SPILL SITE WITH LARGE QUANTITIES OF WATER. LARGE SPILLS: DIKE AREA TO CONTAIN SPILL. COLLECT IN SUITABLE AND PROPERLY LABELED CONTAINERS. WASH THE SPILL SITE WITH LARGE QUANTITIES OF WATER.

7. HANDLING AND STORAGE

HANDLING: AVOID CONTACT WITH EYES, SKIN AND CLOTEING. WASH THOROUGHLY AFTER HANDLING. HEAT DEVELOPED DURING DILUTING OR DISSOLVING IS VERY HIGH. USE COOL WATER WHEN DILUTING OR DISSOLVING (TEMPERATURE LESS THAN 80F, 27C). SEE SECTION 8, EXPOSURE CONTROLS/PERSONAL PROTECTION.

STORAGE: KEEP CONTAINERS CLOSED. STORE IN A DRY PLACE. PROTECT FROM ATMOSPHERIC MOISTURE. DO NOT STORE IN ZINC.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION TO CONTROL AIRBORNE LEVELS BELOW THE EXPOSURE GUIDELINES.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION: USE SAFETY GLASSES. FOR DUSTY OPERATIONS OR WHEN HANDLING SOLUTIONS OF THE MATERIAL, WEAR CHEMICAL GOGGLES.

SKIN PROTECTION: WEAR CLEAN, LONG-SLEEVED, BODY-COVERING CLOTHING. USE GLOVES CHEMICALLY RESISTANT TO THIS MATERIAL. WHEN PROLONGED OR FREQUENTLY REPEATED CONTACT COULD OCCUR, USE CHEMICALLY PROTECTIVE CLOTHING RESISTANT TO THIS MATERIAL. SELECTION OF SPECIFIC ITEMS SUCH AS FACESHIELD, GLOVES, BOOTS, APRON, OR FULL-BODY SUIT WILL DEPEND ON OPERATION. IF HANDS ARE CUT OR SCRATCHED, USE GLOVES CHEMICALLY RESISTANT TO THIS MATERIAL EVEN FOR BRIEF EXPOSURES.

RESPIRATORY PROTECTION: ATMOSPHERIC LEVELS SHOULD BE MAINTAINED BELOW THE EXPOSURE GUIDELINE. FOR MOST CONDITIONS, NO RESPIRATORY PROTECTION SHOULD BE NEEDED; HOWEVER, IN DUSTY ATMOSPHERES, USE AN APPROVED PARTICULATE RESPIRATOR.

EXPOSURE GUIDELINES: CALCIUM CHLORIDE: DOW ING IS 10 MG/M3.

SODIUM CHLORIDE: DOW IHG IS 10 MG/M3.

POTASSIUM CHLORIDE: DOW IHG IS 10 MG/M3.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: WHITE TO OFF-WHITE PELLETS

ODOR: ODORLESS

MELTING POINT: APPROX. 1424F, 772C

BOILING POINT: >1500F, >815C VAPOR PRESS: <0.005 MMHG @ 20C VAPOR DENSITY: NOT APPLICABLE SOLUBILITY IN WATER: VERY SOLUBLE SPECIFIC GRAVITY: 2.2

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE, HYGROSCOPIC.

CONDITIONS TO AVOID: NONE KNOWN. AVOID MOISTURE.

INCOMPATIBILITY WITH OTHER MATERIALS: HEAT IS GENERATED WHEN MIXED WITH WATER. SPATTERING AND BOILING CAN OCCUR. AVOID CONTACT WITH SULFURIC ACID. CORROSIVE WHEN WET. FLAMMABLE HYDROGEN MAY BE GENERATED FROM CONTACT WITH METALS SUCH AS: ZINC, SODIUM.

HAZARDOUS DECOMPOSITION PRODUCTS: DOES NOT DECOMPOSE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

11. TOXICOLOGICAL INFORMATION (SEE SECTION 3 FOR POTENTIAL HEALTH

EFFECTS. FOR DETAILED TOXICOLOGICAL DATA, WRITE OR CALL THE

ADDRESS OR NON-EMERGENCY NUMBER SHOWN IN SECTION 1)

SKIN: THE LD50 FOR SKIN ABSORPTION IN RABBITS IS > 5000 MG/KG.

INGESTION: THE ORAL LD50 FOR RATS IS BETWEEN 967-1668 MG/KG.

MUTAGENICTY (EFFECTS ON GENETIC MATERIAL): FOR CACL2, IN VITRO GENETIC TOXICITY STUDIES WERE NEGATIVE.

12. ECOLOGICAL INFORMATION (FOR DETAILED ECOLOGICAL DATA, WRITE OR CALL

THE ADDRESS OR NON-EMERGENCY NUMBER SHOWN IN SECTION 1)

ENVIRONMENTAL FATE

MOVEMENT & PARTITIONING: PARTITIONING FROM WATER TO N-OCTANOL IS NOT APPLICABLE.

DEGRADATION & PERSISTANCE: INHIBITORY CONCENTRATION (IC50) IN OECD ACTIVATED SLUDGE RESPIRATION INHIBITION TEST (OECD TEST NO. 209) IS GREATER THAN 1000 MG/L.

ECOTOXICOLOGY: BASED LARGELY OR COMPLETELY ON DATA FOR MAJOR COMPONENT(S). MATERIAL IS PRACTICALLY NON-TOXIC TO AQUATIC ORGANISMS ON AN ACUTE BASIS (LC50/EC50 >100 Mg/L IN MOST SENSITIVE SPECIES).

ACUTE LC50 IN BLUEGILL (LEPOMIS MACROCHIRUS) IS 8400-10650 MG/L. ACUTE LC50 IN MOSQUITO FISH (GAMBUSIA AFFINIS) IS 13400 MG/L. ACUTE LC50 IN WATER FLEA DAPHNIA MAGNA IS 759-3005.

13. DISPOSAL CONSIDERATIONS (SEE SECTION 15 FOR REGULATORY INFORMATION)

DISPOSAL: ALL DISPOSAL METHODS MUST BE IN COMPLIANCE WITE ALL FEDERAL, STATE/PROVINCIAL AND LOCAL LAWS AND REGULATIONS. REGULATIONS MAY VARY IN DIFFERENT LOCATIONS. WASTE CHARACTER-IZATIONS AND COMPLIANCE WITH APPLICABLE LAWS ARE THE RESPONSIBILITY SOLELY OF THE WASTE GENERATOR. THE DOW CHEMICAL COMPANY HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (COMPOSITION/INFORMATION ON INGREDIENTS).

FOR UNUSED & UNCONTAMINATED PRODUCT, THE PREFERRED OPTIONS IN-

CLUDE SENDING TO A LICENSED, PERMITTED: RECLAIMER, LANDFILL, OR WASTE WATER TREATMENT SYSTEM.

FOR ADDITIONAL INFORMATION, REFER TO:

- HANDLING & STORAGE INFORMATION, MSDS SECTION 7.
- STABILITY & REACTIVITY INFORMATION, MSDS SECTION 10.
- REGULATORY INFORMATION, MSDS SECTION 15.

AS A SERVICE TO ITS CUSTOMERS, DOW CAN PROVIDE NAMES OF INFORMATION RESOURCES TO HELP IDENTIFY WASTE MANAGEMENT COMPANIES AND OTHER FACILITIES WHICH RECYCLE, REPROCESS OR MANAGE CHEMICALS OR PLASTICS, AND THAT MANAGE USED DRUMS. TELEPHONE DOW'S CUSTOMER INFORMATION CENTER AT 800-258-2436 OR 989-832-1556 FOR FURTHER DETAILS.

14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (D.O.T.): THIS PRODUCT IS NOT REGULATED BY D.O.T. WHEN SHIPPED DOMESTICALLY BY LAND.

CANADIAN TDG INFORMATION: THIS PRODUCT IS NOT REGULATED BY TDG WHEN SHIPPED DOMESTICALLY BY LAND.

15. REGULATORY INFORMATION (NOT MEANT TO BE ALL-INCLUSIVE--SELECTED REGULATIONS REPRESENTED)

NOTICE: THE INFORMATION HEREIN IS PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE AS OF THE EFFECTIVE DATE SHOWN ABOVE. HOWEVER, NO WARRANTY, EXPRESS OR IMPLIED IS GIVEN. REGULATORY REQUIREMENTS ARE SUBJECT TO CHANGE AND MAY DIFFER FROM ONE LOCATION TO ANOTHER; IT IS THE BUYER'S RESPONSIBILITY TO ENSURE THAT ITS ACTIVITIES COMPLY WITH FEDERAL, STATE OR PROVINCIAL, AND LOCAL LAWS. THE FOLLOWING SPECIFIC INFORMATION IS MADE FOR THE PURPOSE OF COMPLYING WITH NUMEROUS FEDERAL, STATE OR PROVINCIAL, AND LOCAL LAWS AND REGULATIONS. SEE OTHER SECTIONS FOR HEALTH AND SAFETY INFORMATION.

SARA 313 INFORMATION: TO THE BEST OF OUR KNOWLEDGE, THIS PRODUCT CONTAINS NO CHEMICAL SUBJECT TO SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION REQUIREMENTS.

SARA EAZARD CATEGORY: THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:

TOXIC SUBSTANCES CONTROL ACT (TSCA):

AN IMMEDIATE HEALTH HAZARD

ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

THE CAS NUMBER(S) FOR TSCA IS(ARE):

CAS# 010043-52-4 CAS# 007647-14-5 CAS# 007447-40-7 CAS# 007732-18-5

STATE RIGHT-TO-KNOW: THIS PRODUCT IS NOT KNOWN TO CONTAIN ANY SUBSTANCES SUBJECT TO THE DISCLOSURE REQUIREMENTS OF PENNSYLVANIA OSHA HAZARD COMMUNICATION STANDARD: THIS PRODUCT IS A "HAZARDOUS CHEMICAL" AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, OR SUPERFUND): TO THE BEST OF OUR KNOWLEDGE, THIS PRODUCT CONTAINS NO CHEMICAL SUBJECT TO REPORTING UNDER CERCLA. -----CANADIAN REGULATIONS ___________ WHMIS INFORMATION: THE CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) CLASSIFICATION FOR THIS PRODUCT IS: D2B - EYE OR SKIN IRRITANT REFER ELSEWHERE IN THE MSDS FOR SPECIFIC WARNINGS AND SAFE HANDLING INFORMATION. REFER TO THE EMPLOYER'S WORKPLACE EDUCATION PROGRAM. CPR STATEMENT: THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR. HAZARDOUS PRODUCTS ACT INFORMATION: THIS PRODUCT CONTAINS THE FOLLOWING INGREDIENTS WHICH ARE CONTROLLED PRODUCTS AND/OR ON THE INGREDIENT DISCLOSURE LIST (CANADIAN HPA SECTION 13 AND 14): COMPONENTS: AMOUNT (%W/W) CALCIUM CHLORIDE 010043-52-4 90-92 16. OTHER INFORMATION MSDS STATUS: REVISED SECTIONS 3,4,5,6,7,8,9,10,11,15. FOR ADDITIONAL INFORMATION -----CONTACT: MSDS COORDINATOR UNIVAR USA INC.

AND SHALL UNDER NO CIRCUMSTANCES BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

DO NOT USE INGREDIENT INFORMATION AND/OR INGREDIENT PERCENTAGES IN THIS MSDS AS A PRODUCT SPECIFICATION. FOR PRODUCT SPECIFICATION INFORMATION REFER TO A PRODUCT SPECIFICATION SHEET AND/OR A CERTIFICATE OF ANALYSIS. THESE CAN BE OBTAINED FROM YOUR LOCAL UNIVAR SALES OFFICE.

ALL INFORMATION APPEARING HEREIN IS BASED UPON DATA OBTAINED FROM THE MANUFACTURER AND/OR RECOGNIZED TECHNICAL SOURCES. WHILE THE INFORMATION IS BELIEVED TO BE ACCURATE, UNIVAR MAKES NO REPRESENTATIONS AS TO ITS ACCURACY OR SUFFICIENCY. CONDITIONS OF USE ARE BEYOND UNIVARS CONTROL AND THEREFORE USERS ARE RESPONSIBLE TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PARTICULAR PURPOSES AND THEY ASSUME ALL RISKS OF THEIR USE, HANDLING, AND DISPOSAL OF THE PRODUCT, OR FROM THE PUBLICATION OR USE OF, OR RELIANCE UPON, INFORMATION CONTAINED HEREIN. THIS INFORMATION RELATES ONLY TO THE PRODUCT DESIGNATED HEREIN, AND DOES NOT RELATE TO ITS USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY OTHER PROCESS.

* * * END OF MSDS * * *